

#12.

Hawaiian Explorations.

D^r 3977 - 3987.

Hy. 4393 - 4430.

June 2nd - 11th, 1902.

27.9

2500	
2600	
2700	
2800	
2900	
3000	
3100	
3200	
3300	
3400	
3500	
3600	
3700	
3800	
3900	
4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.C. 362

No. 11393 Hy Date June 02
 Sibley Machine. Reel. Trawl
 Turns 263 Cor. + 26 Depth 289 fms
 Shot or lead 60 #

Bottom Cr. Co. S. Sh.

Bottom temperature 45°

No. of thermometer 80460 Cor.

Corrected temperature

Air 80 Surface 70 Drift

Trawl or dredge

SOUNDING WIRE. DOWN.	UP.	TURNS.	DREDGE ROPE.	
			DOWN.	UP.
11.11.50	11.18.20	0		
12.40	17.10	100		
13.50	16.00	200		
11.14.30	11.15.30	263		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Moder Manu or Bua Island - Vicinity of
Center of Bua - N 73° E, 5 $\frac{1}{10}$ '

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

JK
300.
m
4830 257

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	16 3			
50	26			
100	28			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Saint P. S. 38.2
No. 1391 Typ. Date ~~June 07~~
~~Symbol~~ Machine. Reel. ~~100~~
Turns 23 Cor. + 2 Depth 25 fms
Shot or lead 35 &
Bottom 60, S.

Bottom temperature 70°

No. of thermometer 80460 Cor.

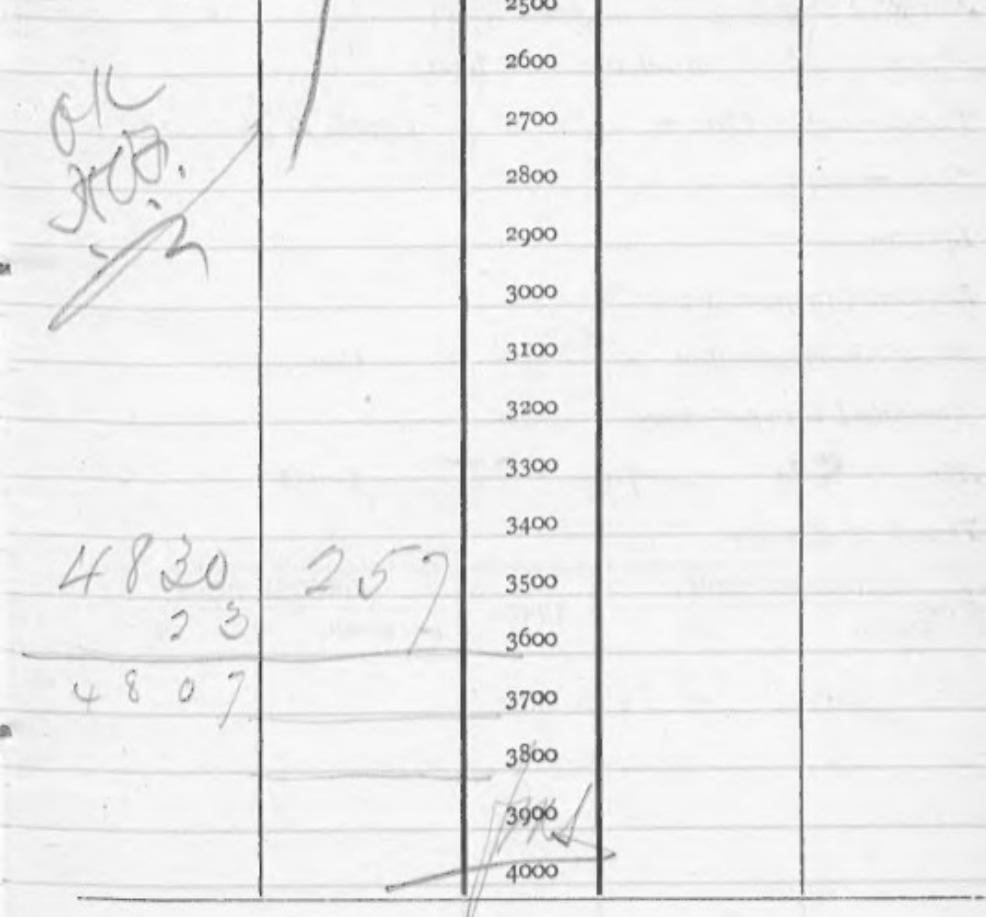
Corrected temperature

Air 80 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.37.40	11.38.50	230		
		-100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		*		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Buoy S^o - N 71° E., 7 $\frac{4}{10}$ '



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

~~Stony~~
No. 1395 Hy Date June 7-02
~~Spool~~ Machine. Reel.

Turns 21 Cor. + Depth 22 fms

Shot or lead 26

Bottom C.N.C. S. and Sh. Co.

Bottom temperature

No. of thermometer ~~100~~ Cor.

Corrected temperature

Air 60 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.47.00	11.47.50	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Buoy 20 - N 71° E., 7 $\frac{6}{10}$ '

OK
H.B.
J.A.

496
21
475

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 38.6 1/2

gauge No. 11396 Hy	Date 7 June 01	Machine.	Reel.
Turns 22 Cor. + 1	Depth 23 fms		
Shot or lead 26 4			
Bottom 60.5			
Bottom temperature			
No. of thermometer J.M.	Cor.		
Corrected temperature			
Air 80 Surface 75 Drift			
Trawl or dredge			
SOUNDING WIRE.		DREDGE ROPE.	
DOWN.	UP.	TURNS.	DOWN.
11.51.10	11.67.-	0	
		100	
		200	
		300	
		400	
		500	
		600	
		700	
		800	
		900	
		1000	
		1100	
		1200	
		1300	
		1400	
		1500	
		1600	
		1700	
		1800	
		1900	
		2000	
		2100	
		2200	
		2300	
		2400	

Cal. of Bathy. - N.Y. E., 7%
1695 12

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine. — Recl.

Turns 22 Cor. + Depth

Shot or lead 16

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 50 Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

U. S. Fish Commission - N 70° 48' E., 8 1/10

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.		Date		
Tanner Machine.	—	Reel.	—	
Turns 21 Cor. + 1		Depth 22 f.		
Shot or lead 26 Lbs.				
Bottom 60. co.				
Bottom temperature				
No. of thermometer 4		Down Cor.		
Corrected temperature				
Air 80 Surface 75 Drift				
Trawl or dredge				
SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		21		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Brule Is - N 70° 45' E., 8th

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 40.0

607.

No.

Date 2

Time

11.00

Machine. - Reel.

-

Turns 21 Cor. + 1 Depth 22 fms

Shot or lead 26 lbs.

Bottom S. so.

Bottom temperature

No. of thermometer 2 None. Cor.

Corrected temperature

Air 80 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Centr of Baffin Isd N $70^{\circ}30'8$, 9 $\frac{1}{2}$

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

31 490

'86 SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. Hy. 4400. Date 2 June '02
 Tinner Machine. - Reel. -
 Turns 21 Cor. + Depth 22 fms.
 Shot or lead 26 lbs
 Bottom Co S.

Bottom temperature

No. of thermometer 7 None Cor.

Corrected temperature

Air 80 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		21 100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Biaia So. N $70^{\circ} 15' E.$, 10 $\frac{2}{10}'$

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 44. Date 11-11-18
 Tanner Machine. — Reel. 11 -
 Turns Cor. + / Depth 100 fms.
 Shot or lead 26 lbs.
 Bottom 62 fms.
 Bottom temperature
 No. of thermometer 4 None. Cor.
 Corrected temperature
 Air 80 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Baffin Bay. N 73° E., 112° W.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

496

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 214402 Date 12

Tidwell Machine. Reel.

Turns Cor. + 1 Depth

Shot or lead 26 lbs.

Bottom C.R.

Bottom temperature

No. of thermometer 2 None Cor.

Corrected temperature

Air 80 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of basin - N 69° 45' E., 12° 30'

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.D. = 45.2

No.

Date

Lig. sec Machine. / Reel. No.

Turns 18 Cor. + 2 Depth 25

Shot or lead 3.6 lbs.

Bottom coralline nod.

Bottom temperature

No. of thermometer 6.70 m. Cor.

Corrected temperature

Air 79. - Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS,	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Bay 30 - N 74° 45' 2", 1965

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 1150 Date 2 June 1863
 Tanner Machine — Recd. —

Turns 109 Cor. + Depth 20 fms.

Shot or lead 26 lbs.

Bottom coralline rock.

Bottom temperature

No. of thermometer 4. None Cor.

Corrected temperature

Air 79. — Surface 75. — Drift

Trawl or dredge

SOUNDING WIRE.	DOWN.	UP.	TURNS.	DREDGE ROPE.	
				DOWN.	UP.
1.30.20			0		
			10		
			100		
			200		
			300		
			400		
			500		
			600		
			700		
			800		
			900		
			1000		
			1100		
			1200		
			1300		
			1400		
			1500		
			1600		
			1700		
			1800		
			1900		
			2000		
			2100		
			2200		
			2300		
			2400		

Centr. of Budd Is. - Nov. 8., 1877

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 49 -

No. 4405 Date 26 Jan '02

Vanner Machine. — Reel. —

Turns 60 Cor. + 2 Depth 19

Shot or lead 26 lb.

Bottom crs. co S. Forest.

Bottom temperature 75°

No. of thermometer 5 Therm. Cor.

Corrected temperature 75°

Air 79° — Surface 75° — Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		60		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Cutter off Baja Calif - N 86° 30' E, 112° W

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Sigbee Machine. / Reel. Var.
 Turns 333 Cor. + 33 Depth 366 fms.

Shot or lead 36 lbs.

Bottom fine co. S.

Bottom temperature }

No. of thermometer } None Cor.

Corrected temperature }

Air 78. - Surface 75. - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2.13.00	2.21.15	0		
14.10	20.00	100		
15.10	19.00	200		
16.25	18.00	300		
2.16.50	2.17.30	333		
		400-		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Centr. of Buoy - 885° E., 11° S.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 117. 3977. Date ~ June 12.
 Circular Machine / Reel
 Turns 796 Cor. + 80 Depth 8' 6" fms.
 Shot or lead 35 Lbs.
 Bottom for Co S, For. A.
 Bottom temperature 78.-
 No. of thermometer 804601 Cor. { 835° E
 Corrected temperature
 Air 78.- Surface 75.- Drift 1.
 Trawl or dredge 5½' (Bottom 12' abm)

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3.42.00	3.01.30	0	3.07.30	15.30
43.00	3.00.25	100	11.40	11.50
44.00	57.20	200	15.25	08.10
45.00	58.15	300	18.55	04.20
46.05	57.05	400	22.25	-
47.15	55.55	500	25.20	57.10
48.25	54.50	600	28.55	53.35
49.35	53.50	700	31.50	11.50
50.45	52.50	800	34.50	44.50
51.10	51.50	900	38.10	51.50
		1000	41.45	35=
		1100	45.40	31.50
		1200	49.30	31.50
+ 1300		53.20	23.05	
1350		57.25	15.35	
1400				
1375		44.75	44.75	
		1600		
		1700	16.75	
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Biau D. - 875° E., 11 $\frac{3}{10}$ '

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
4830	257	3800	
796		3900	
-		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Very large rock; 1			
100	macriderid; 3			
200	1 kind gorgonian, 1			
300	2 kinds sponges, 1			
400	2 kinds prawns; 1			
500	Amph. corals; 2 kinds hydroids;			
600	2 kinds sphaerano.			
700				
800				
900				
1000				

REMARKS:

Under 3000 fms.
to 1375 fms.

No. 3978

Date June 3rd 1902

Machine Reel.

Turns 31 Cor. + 1 Depth 32

Shot or lead

Bottom 0.0

Bottom temperature

No. of thermometer

Corrected temperature

Air Surface 74

Trawl or dredge

SOUNDING WIRE.

DOWN.	UP.
8.15.10	8.26.

Cor. 1.80

Drift 1/2

DREDGE ROPE.

TURNS.	DOWN.	UP.
31	1.00	1.03.00
100	1.00	1.03.00
200		
300		
400		
500		
600		
700		
800		
900		
1000		
1100		
1200		
1300		
1400		
1500		
1600		
1700		
1800		
1900		
2000		
2100		
2200		
2300		
2400		

Center of Buid - N 14° E., 2 $\frac{2}{10}$ '

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tangle	=		
50	2 or 3 kinds corals; much of 2 kinds			
100	bryozoa; 2 kinds corallines; many			
200	Kinds algae; many small sponges of			
300	several kinds; 2 kinds urchins;			
400	4 kinds ophiurans; 1 starfish;			
500	1 lamelli branch; several kinds crab;			
600	pebt munida; 1 hydroid.			
700				
800				
900				
1000				

REMARKS:

no life.

No. 1115

Date 3 Aug

Machine. Reel.

Turns 44 Cor. + 2 Depth

Shot or lead 26

Bottom 50 ft

Bottom temperature

No. of thermometer 1 Cor.

Corrected temperature

Air 78 Surface 11 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1.5511	1.5630	0		
85	55.50	446		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Buoy D (N 12° E., 2 1/10)

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

not.

(4, 1)

No. 114 Date 5/16/03
 Jigging Machine Reel. 15000
 Turns 1000 Cor. + 97 Depth 1077 fms
 Shot or lead 1
 Bottom Pre. No. 8, S. 3
 Bottom temperature 36.5
 No. of thermometer 80460 Cor.
 Corrected temperature
 Air 71 Surface 71 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
24.25	51.31	200		
24.25	51.31	300		
24.25	51.31	400		
24.25	51.31	500		
24.25	51.31	600		
24.25	51.31	700		
24.25	51.31	800		
24.25	51.31	900		
24.25	51.31	1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Centre of Bird's N.S.E., 5 $\frac{7}{10}$ '

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

72.4

38 fath 62

No. 4109 Date 3 Jan 02
 Machine. Reel. 1-17 down
 Turns 880 Cor. + Depth 167
 Shot or lead 35
 Bottom 1 m. W. S. 50
 Bottom temperature 37.3
 No. of thermometer 804 Cor.
 Corrected temperature
 Air Surface Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.20.10	10.11.10	0		
2.7.10		100		
		200		
	1.1.10	300		
2.7.10	112.50	400		
3.7.10	211.00	500		
3.2.10		600		
3.1.10	37.50	700		
		800		
2.1.10		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200	61	15		
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4410

Date

Machine.

Reel.

Turns 733

Cor. +

73

Depth

806

Shot or lead

Bottom fresh. S. for.

Bottom temperature

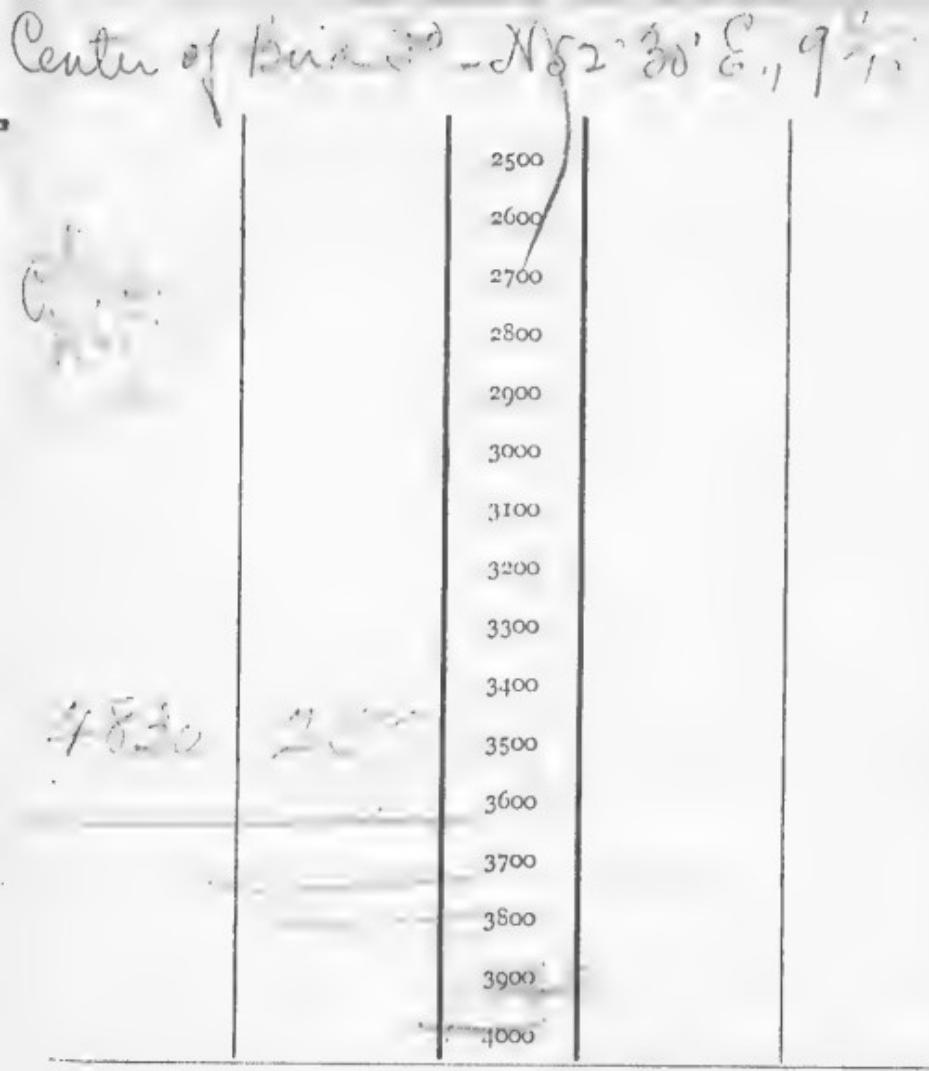
No. of thermometer 80460 Cor.

Corrected temperature

Air 75 Surface 74 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
1.50	1.50	100		
		200		
	4.10	300		
1.10	33.00	400		
1.20	29.00	500		
	30.15	600		
	7.01	700		
27.1	1.1	732 500		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TRMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P. L. = 77.4

No.

Date 3

C. 11111 Machine, Reel.

Turns 620 Cor. +

Depth

Shot or lead 35 L.

Bottom fresh. 8. For,

Bottom temperature 38.6

No. of thermometer 80460. Cor.

Corrected temperature

Air 77. - Surface 75. - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12.06.45	12.20.50	0		
07.40	19.45	100		
08.50	19.50	200		
09.20	19.35	300		
10.15	16.30	400		
11.15	15.20	500		
12.15	14.20	600		
12.12.30	12.14.00	627 -700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Isla de la Natividad - N 36° 36' S., 107°

OK HOP. HOP.		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
621 622 623		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 79.4

No. Dr. 897. Date 3 June 1902
 Machine. Reel. Name.
 Turns Cor. + 20 Depth 22 fms.
 Shot on lead 35 lbs.
 Bottom 10 fms. R.
 Bottom temperature 54°
 No. of thermometer 804.0. Cor.
 Corrected temperature { 54°
 Air — Surface 55° Drift 8/10
 Trawl or dredge 5 1/2 ft. Plateau

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12.51.00	12.56.00	0	1.18.25	3.02.10
12.51.37	55.00	100	22.30	58.45
12.52.10	12.52.57	200		
		250		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

* Reel out 25 fms.
 under heavy strain
 while heaving in.

Center of Brad - N 64° 30' E., 11!

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Blake trawl:			
100	3 <i>Kudo macrurus</i> ; synapho-			
200	tranchus; 3 (?) <i>neoscopelus</i> ; 1 crab;			
300	many <i>holothurians</i> of 3 sps;			
400	1 <i>pentacheles</i> ; 1 hermit; 1 anemone;			
500	1 <i>umbellula</i> ; 1 <i>hydroid</i> ; 1 phromo-			
600	forna.			
700				
800				
900				
1000				

REMARKS:

No. 45. Date 2 June 12.

C. S. Sea Machine Co. / Reel, 100.

Turns 352 Cor. + 35 Depth 38 fms.

Shot or lead 35 lbs.

Bottom fm. 8. fms.

Bottom temperature 42. -

No. of thermometer 80460. Cor.

Corrected temperature

Air 76. - Surface 75. - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3.05.00	3.15.00	0		
06.25	15.00	100		
07.25	15.00	200		
08.25	10.15	300		
3.01.00	3.09.00	400		
		500		
		600		
Also marked		700		
at		800		
Dr. 3979.		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center off Baja - N 30° 45' 8", 117 $\frac{1}{10}$ '

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. = 81.0

No. 41. 1112 Date

Machine.

Recl.

Turns 25 Cor. + 2 Depth 19

Shot or lead 35 lbs.

Bottom 15 fms.

Bottom temperature 74°

No. of thermometer 51 Cor.

Corrected temperature

Air 76. - Surface 75. - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		25°		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Baja 2° - N 64° E., 12 $\frac{1}{10}$

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

son.
No. 4111 Date Jan 18
Trawl Machine Reel.

Turns Cor. + Depth

Shot or lead Lbs.

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

Air 78 Surface 75

Trawl or dredge

Cor.

Draft

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
14-12-50		50		
14-12-5		100		
15-		150		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

496

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	48.0	257		
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 13.4

W fig. 5.

~~Number 4414~~ Date June 8th 1902
 Machine #1 Reel. ~~cking~~
 Turns 317 Cor. + 32 Depth 3.17
 Shot or lead 35 lbs
 Bottom f.m. 60 S. 85°
 Bottom temperature 43°
 No. of thermometer 80460 Cor.
 Corrected temperature
 Air 78 Surface 75 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
35.13	0			
37.05	100			
36.10	200			
24.50	300			
34.40	317			
	400			
	500			
	600			
	700			
	800			
	900			
	1000			
	1100			
	1200			
	1300			
	1400			
	1500			
	1600			
	1700			
	1800			
	1900			
	2000			
	2100			
	2200			
	2300			
	2400			

Centr of Africa - N 58° E., 14° 20'

		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

O.L. 854
S by W

No. 1115 Date June 3rd 1912
Digsby Machinc. Reel. Trawl.

Turns 25 Cor. + 3 Depth 31 fms

Shot or lead 26 lbs

Bottom fm 60. S

Bottom temperature

No. of thermometer 1 P.D. Cor.

Corrected temperature

Air 78 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE. DOWN.	UP.	TURNS.	DREDGE ROPE.	
			DOWN.	UP.
4.54.33		0.		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Buoy 30 - 26° 18' E., 16°

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.M. 564

S X W

No. 14416 Date June 3rd 1902
 Sounding Machine Reel. 31 fms
 Turns 28 Cor. + 3 Depth 31 fms
 Shot or lead 36 lbs.
 Bottom fine sand
 Bottom temperature
 No. of thermometer 80460 Cor.
 Corrected temperature
 Air 78 Surface 75 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5-15.19	11.20	28		
10.20		000		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Buoy - N 55° 30' 6", W 7° 10'

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Sight.

No. 1111 Date 10/10/62
 Machine. Reel.
 Turns Cor. + Depth
 Shot or lead 36°
 Bottom fine. 6.
 Bottom temperature 74.2
 No. of thermometer 804600 Cor.
 Corrected temperature
 Air 78 Surface 74 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of basin N 50° 45' E., 18²/₁₆

6K
100.
m

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

C. L. T.D. A.

S. W.

S. S.

Nov. 11, 1918

Date

Nov. 12.

Machine #1 Reel. 1000

Turns 427 Cor. + 43 Depth 470 fms

Shot or lead 35 lbs.

Bottom fine Co. S. for.

Bottom temperature 41

No. of thermometer 80460 Cor.

Corrected temperature

Air 78 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6.04.00	14.10	0		
05.30	13.3	100		
06.10	12.15	200		
07.35	11 =	300		
08.10	10 =	400		
08.40	09.40	427 500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Baid Jd. - 0146° E., 19 $\frac{5}{10}$.

16
15
14
13
12
11
10

4130 357

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4119

Date

C. G. S. E. / K. E.

Machine. Recl.

Turns 215 Cor. + 71 Depth 2154

Shot or lead 60 ft

Bottom Cos. Co. S. For

Bottom temperature 30° —

No. of thermometer 80460 Cor.

Corrected temperature

Air 76 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12. 12. 00	12. 12. 00	0		
46. 40	34. 2	100		
7. 10	6. 10	200		
76. 10	66. 10	300		
11	11	400		
		500		
		600		
		700		
		800		
	W.	900		
		1000		
	3.	1100		
57.	57.	1200		
61.	61.	1300		
57.	20. 10	1400		
12. 11.	10. 00	1500		
	1.	1600		
03. 20	16. 40	1700		
04. 30	15. 35	1800		
05. 40	14. 70	1900		
06. 15	13. 10	2000		
08. 10	11. 50	2100		
08. 50	12. 11. 00	2152		
		2200		
		2300		
		2400		

Modu Manu, or Bird Is^t, toward Niihau Is.
22° 42' 30" N. 161° 4' 21" W.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
480	3900	
480	4000	

2534/213
SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

E.S.E. 38° E. (S.C.)

No.

Date

Machine.

Reel.

Turns 217 Cor. +

Depth

Shot or load 600 L.L.

Bottom Henry. - ag

Bottom temperature 35.4

No. of thermometer 80460. Cor.

Corrected temperature

Air 74. - Surface 75. - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4.06.40	4.59.25	0		
07.31	58.25	100		
08.15	57.15	200		
09.05	56.10	300		
10.00	54.55	400		
10.55	53.45	500		
11.45	52.30	600		
12.45	51.15	700		
13.40	50.10	800		
14.40	49.10	900		
15.40	47.50	1000		
16.40	46.40	1100		
17.45	45.15	1200		
18.50	43.55	1300		
19.55	42.30	1400		
21.00	41.05	1500		
22.05	39.40	1600		
23.20	38.20	1700		
24.30	37.00	1800		
25.45	35.40	1900		
26.55	34.20	2000		
28.05	32.00	2100		
4.13.20	1/21.10	217		
		2200		
		2300		
		2400		

22° 22' N., 161° 18' 30" W.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

11530

210
210
210

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

C. 77.9

Course E.E. 2.2

No. 34421 Date 10-11-18

Machine Reel.

Turns Cor. + 186

Depth 242 fms.

Shot or load 60

Bottom fm. 11

Fathoms

Bottom temperature 35.5°

No. of thermometer 51460 Cor.

Corrected temperature

Air 75 Surface 76 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
57.1	3.1	0		
56.5	0.5	100		
23.20	05.30	200		
24.10	07.30	300		
25 =	06.30	400		
25.55	05.30	500		
26.50	04.25	600		
27.50	3.1	700		
28.45	02.20	800		
29.40	01.20	900		
30.40	9.00.20	1000		
31.45	59.15	1100		
32.50	58.10	1200		
33.55	57 =	1300		
35.00	55.50	1400		
36.10	54.45	1500		
37.15	53.35	1600		
38.20	52.25	1700		
39.25	51.10	1800		
40.50	50.10	1900		
42.10	49.05	2000		
43.25	48 =	2100		
44.35	46.50	2200		
45 =	46.15	2240		
		2300		
		2400		

22° 21' S. 160° 54' 30" W.

		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50		48.0	25.7	
100		22.13	21.0	
200		25.57	18.8	
300			22.45	
400			21.50	
500				
600				
700				
800				
900				
1000				

REMARKS:

2.9

No.

Date

Machine.

Recl.

Turns 1686 Cor. + 151

Depth

1837

Shot or lead 60

Bottom

Bottom temperature

No. of thermometer 81

Cor.

Corrected temperature

Air 77 Surface 76 Drift

Trawl or dredge

SOUNDING WIRE.			DREDGE ROPE.	
DOWN.	UP.	TURNS.	DOWN.	UP.
19.30	19.15	0		
20.20	20.15	100		
21.10	21.15	200		
20.00	20.15	300		
19.00	19.10	400		
18.00	18.10	500		
17.00	17.10	600		
16.00	16.10	700		
15.40	16.16	800		
16.60	16.40	900		
17.40	14.20	1000		
18.40	17.20	1100		
19.40	17.20	1200		
20.10	11.20	1300		
20.50	10.20	1400		
20.20	09.10	1500		
20.20	16.00	1600		
20.10	17.00	1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

22° 11' N. 160° 30' 30" W.

1656
315

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3980 Date June 9th, '02.

Machine.

Recl.

Turns Cor. + Depth fms.

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air \sim Surface Drift

Travel or dredge 2 Surface nets, one car. side.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.01	7.11	10 m.	2 ^d haul =	
		100	Same as before	
7.14	7.24	10 m. 200	but in even larger	
		300	quantity; made up	
7.29	7.39	10 m. 400	very largely of pink	
		500	Copepoda, Chronima,	
7.42.30	7.52.30	10 m. 600	1 stomatopod, and	
		700	small fishes of diff-	
		800	kinds; no myctophum.	
8.07	8.30	11 m. 900		
		1000		
8.15	8.35	11 m. 1100	3 ^d haul =	
		1200	less than $\frac{1}{5}$ former	
7 hauls =	71 min.	1300	amount, but no	
		1400	other decided change	
		1500	1 fine heteropod -	
		1600		
		1700	4 th haul =	
		1800	almost nothing as to	
		1900	quantity, copepods	
		2000	having almost disappeared	
		2100	1 hippocampus; 1 gr.	
		2200	heteropoda; ghost fishes;	
		2300	few myctophum;	
		2400	stomaphores very	
		2400	numerous.	

St. Paul Island, Alaska Sp., June 15, 1911.

31° 23' N. 161° 17' W.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200	5 th haul = Quantity small, as before. few copepods; few crabs, and other crustacea; few elasmophores and medusæ;			
300	Many myctophum; 2 or 3 other small			
400	miniature fishes & one species; the			
500	variety greatly diminished. Halobatis			
600	is always.			
900				
1000	6 th haul: As above. Many myctophum few other fishes; many elasmophores;			
	halobatis; few	REMARKS: Copepods, crabs, &		
	other crustacea.			

7th haul. As before. The mass of material made up as in hauls 4-6)
of sphaerzonan mixed with few copepods.
Several myctophum; no other fishes.
Many elasmophores; 3 annelids.

114.8

No.

Date

Machine.

Reel.

Turns 576 Cor. +

56

Depth 636 fms

Shot or lead -

Bottom

Bottom temperature

No. of thermometer

Cor. 7.105

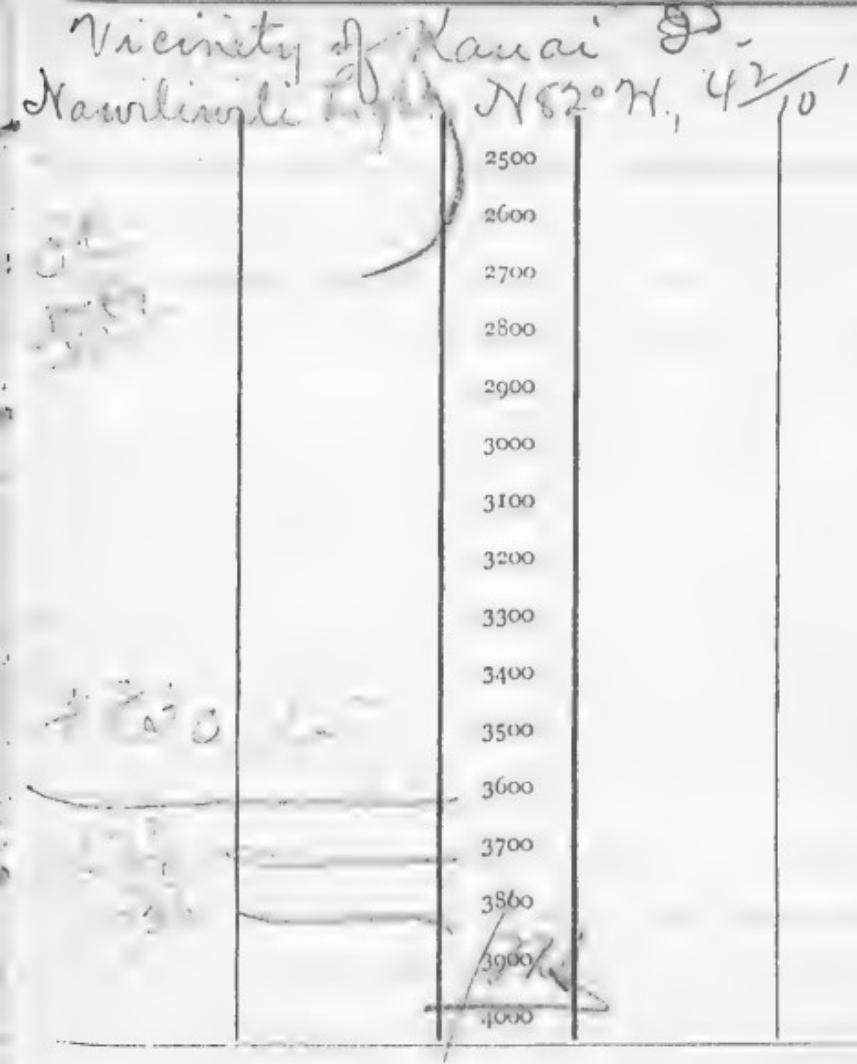
Corrected temperature

Air 62 Surface 77

Drift 1 1/2'

Trawl or dredge

SOUNDING WIRE:		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
51.80	8.00	0		
40	93.45	100		
30	03.41	200		
24.36	01.00	300		
15.30	01.00	400		
10.30	00.00	500		
7.30	1.37.00	576		
		700		
		800		
		900		
		1000		
8.20	8.40	1000		
8.44	9.59	1100		
		1200		
2 hours -	25 min	1300		
		1400		
		1500		
		1600		
* Towed out the 910 mds on heavy bottom.		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Fair and pleasant			
50	light 17° air; 16° water			
100				
200				First haul.
300	little material. Few small shore fishes of kinds that seem			
400	not to be at surface at night.			
500	Few large blue copepods and other			
600	Crustacea, Halobates; sphaerogonium;			
700	two larval mollusks (? nudibranchs)			
800	2 ^o haul not listed -			
900				
1000				

REMARKS:

Tangles = Good haul with much branching gorgonians + ophiurans wound about them. 4 kinds ophiurans; 1 kind starfish; munida; hermit; isopod; sponge; urchin; gonostoma; 2 kinds gorgonians.

No. Hy 442 Date 10 June, '02.

Lubber Machine 1. Reel. Navy.

Turns 37 Cor. + 3 Depth

Shot or lead 36 Lbs.

Bottom fine sand.

Bottom temperature ~~70° F.~~ ^{70° F.} ~~revised 69° F.~~

No. of thermometer 80486. Cor.

Corrected temperature

Air 86. Surface 77. Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Naukivili Light, N 80° 30' N., 3°

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. Dr. Date 10 June 31
 Machine. Reel.
 Turns 212 Cor. + 2 Depth 2.12 fms.
 Shot or lead 36
 Bottom 20°
 Bottom temperature
 No. of thermometer 2 Cor.
 Corrected temperature
 Air 84. - Surface Drift { N.Y.H.
 Trawl or dredge 9 9/15
 in 11 times

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	10.13.00	10.55.00
		100		
		200		
		300	10	
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Nauiliwili Light. N $68^{\circ}21'$. 1 $\frac{6}{10}'$.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tangles:			
50	2 solitary corals; much			
100	hydrorcoralline; 1 starfish; 3 kinds			
200	hydroids; 2 kinds gorgonians; 2			
300	kinds antipatharians; several kinds			
400	sponges; 2 kinds menida; 1 aquilla;			
500	several alpheus; hermits; several kinds			
600	crab; shrimp; 1 ophiuran; several			
700	clypeastrids; much & several esp-			
800	coralline; 1 hippocampus; several			
900	small serranoids.			
1000				

REMARKS:

No. 4424 Date

S. 103.800 Machine. Reel.

Turns Cor. + 4 Depth

Shot or lead

Bottom on br co S. L.

Bottom temperature 75.2

No. of thermometer 92449 Cor.

Corrected temperature

Air 54 Surface 78 - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Hauikiwaki Light, N 46° H, 1/10.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Date 10 June '02.

Machin. / Reel // Tug

Turns Cor. +

Depth 506 fms.

Shot or lead

Bottom

Bottom temperature 39°

No. of thermometer

Cor.

Corrected temperature

Air

Surface

77

Drift

Trawl or dredge S. m. m.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.34.45	11.44.35	0	11.53	11.30
		100	11.53	11.30
		200	11.53	11.30
	11.50	300	12.00.30	37
		400	12.10	37
	11.50	500	07.10	37
		600	10.10	37
		611	11.20	10.40
		700		
		63		
		840		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Nawiliwili Lgh., 87°W., 3°10'.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Janner Trawl	=		
100	Polygonia; officinaria			
200	attached to coral; 2 shrimps			
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1111-1000 m. then went to
635 fms

Not capsized, hide off

No. 39 4425 Date June 10th 1902.
 Surface Machine #1 Reel.

Turns 344 Cor. + 34 Depth 348 fms

Shot or lead 36

Bottom fr. br 84 fm

Bottom temperature 41°

No. of thermometer 92449 Cor.

Corrected temperature

Air 78 Surface 78 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
- 52.10	- 52.10	0		
53 =	53.00	100		
53.55	53.55	200		
54.55	54.55	300		
55.20	55.20	400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Hawke's Bay, 86°N., 3° $\frac{1}{10}$ '

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

O.L. 51.8

507.

No. 5 3984 Date June 10th 1903
 Shipper Machine #1 Reel. 7.
 Turns 215 Cor. + 22 Depth 237
 Shot or lead 36 lbs.
 Bottom 400 fms. 42°
 Bottom temperature 42°
 No. of thermometer 73444 Cor. 1.0°
 Corrected temperature 72°
 Air 84 Surface 78 Drift 1°
 Trawl or dredge sample, bush, 7 yards - small

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.21.0	34.25	0	1.31.50	34.25
27.5	33.25	100	42.50	31.25
20.5	32.15	200	47.00	31.25
11.15	32.05	215	51.40	21.00
		300	54.45	18.20
		400	58.20	14.00
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Nautilwili Light, 83° 30' S. L. 35° 10'

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4426 Date June 10 th
 Machine. Reel. Trawl
 Turns 149 Cor. + 15 Depth 164 fms
 Shot or lead 30 lbs
 Bottom gy M.
 Bottom temperature 55°
 No. of thermometer 72.847 Cor.
 Corrected temperature
 Air 63 Surface 77 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2.35 =	42.10	0		
37.90	46.10	100		
37.40	40.25	147		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Hao-tien-ki height, S 18° 21.4' 10'.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

O.L. 52.8

No. Hg 4427 Date June 1903

Trawl or Machine. Reel.

Turns 13 Cor. + Depth 14 fms

Shot or lead 26.4

Bottom 40 m.

Bottom temperature 61.5

No. of thermometer 921111 Cor.

Corrected temperature

Air 83 Surface 79 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Mauiinihi Light, 84° 30' N., 5°

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

4/16 SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

C. L. 57.8

No. 3085 D1 Date April 16 - 02
 Dredge Machine #1 Reel. Plow
 Turns 434 Cor. + 43 Depth 477 ft
 Shot or lead 35 lbs
 Bottom 74° S. For. shore deposit?
 Bottom temperature 40°
 No. of thermometer 2 Cor.
 Corrected temperature (N. 27.071)
 Air 85 Surface 71 Drift 1.
 Trawl or dredge 718 Wt. 1.

SOUNDING WIRE		TURNS.	DREDGE ROPE	
DOWN.	UP.		DOWN.	UP.
3-53.50	4.02.30	0	4.12.00	33
54.45	08.30	100	15.10	34
55.35	4.00.40	200	16.10	35
	57.00	300	19.00	21.2
	57.65	400	22.50	—
57.50	53.25	450	—	—
		500	—	—
		600	—	—
		700	—	—
		800	—	—
		900	20	—
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Hanamaulu (Thukini) Warehouse
S 53° 30' N., 6°

0		2500	
100		2600	
200		2700	
300		2800	
400		2900	
500		3000	
600		3100	
700		3200	
800		3300	
900		3400	
1000	4850	3500	
1100	257	3600	
1200		3700	
1300		3800	
1400		3900	
1500		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
0				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Glass float broken

No.

Date

10 Aug 1902

Machine. 1 Reel.

Turns 39 Cor. +

Depth

Shot or lead

Bottom 94 S. Fr. Plane deposit?

Bottom temperature

No. of thermometer 92 111 Cor.

Corrected temperature

Air 85 Surface 78 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
26.40	5.31	0		
27.55	3.26	100		
28.10	3.2.46	200		
29.45	32.35	300		
30.25	31.30	391 400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Hanalei Wharf, Aug 31st, 1870

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. Dr. 3986 Date 11 June, 1911.

Sigsbee Machine. 1 Reel.

Turns 327 Cor. + 37 Depth 762 fms.

Shot or lead 35 lbs.

Bottom 74.2 fm. Max depth 7

Bottom temperature 41.8

No. of thermometer 92449. Cor. 31.77.

Corrected temperature 31.77.

Air 78. Surface 6. Drift 1.

Trawl or dredge 8 ft. down

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8. 21.00	8. 35.25	0		14.75
21.00	35.25	100	14.75	11.10
21.00	35.25	200	14.75	11.10
21.00	35.25	300	14.75	11.10
8. 32.00	8. 34.25	329	14.75	11.10
		400	14.75	11.10
		500	14.75	11.10
		600	14.75	11.10
		700	14.75	11.10
		800	14.75	11.10
		900	14.75	11.10
		1000	14.75	11.10
		1100	14.75	11.10
		1200	14.75	11.10
		1300	14.75	11.10
		1400	14.75	11.10
		1500	14.75	11.10
		1600	14.75	11.10
4. Towed out to 607		1700	14.75	11.10
Made no bottom return.		1800	14.75	11.10
		1900	14.75	11.10
		2000	14.75	11.10
		2100	14.75	11.10
		2200	14.75	11.10
		2300	14.75	11.10
		2400	14.75	11.10

Hanalei Neighborhood, 837°30'W., 6⁵/₁₀

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS

No. 30308 Date 11 am, '02.

Ship Machine Reel.

Turns 50 Cor. + Depth 55 fms.

Shot or lead 36

Bottom crs co S. frag.

Bottom temperature 73.

No. of thermometer 92 449. Cor. (N 21° W)

Corrected temperature

Air 78. Surface 77. Drift 1°

Trawl or dredge T. Prairie Banks

SOUNDING WIRE.		TURN.S.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100	12.03.30	10.10.30
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Honolulu Harbor, 82° W., 6° 10'.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	72	0		
50	70	0		
100	68	0		
200	65	0		
300	63	0		
400	60	0		
500	58	0		
600	56	0		
700	54	0		
800	52	0		
900	50	0		
1000	48	0		

REMARKS:

No. H. 4429. Date 11 June, '02.

Tanner Machine. Reel.

Turns 48 Cor. + 2 Depth 50 fms.

Shot or lead 26 lbs.

Bottom 28.2h

Bottom temperature

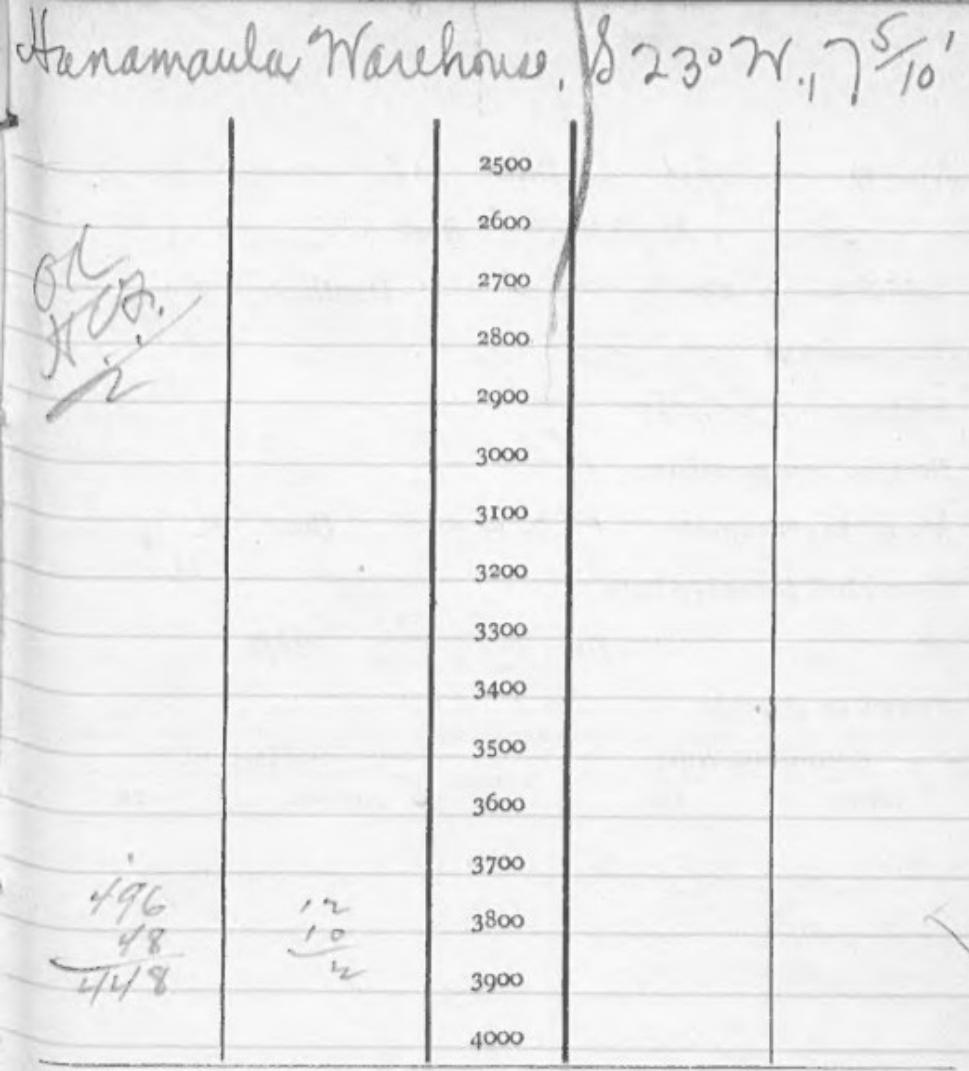
No. of thermometer } None Cor.

Corrected temperature } .

Air 79. Surface 77. Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1021.30		0		
		100		
		200		
		300		
Also marker and		400		
ok		500		
Dr. 3987.		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Drift 4430 Date 11 June, '02.
 Sigsbee Machine #1 Reel. Navy
 Turns 1414 Cor. + 130 Depth 1544 fms.
 Shot or lead 35 lbs
 Bottom Glot Pg.
 Bottom temperature 34.9°
 No. of thermometer 92449. Cor.
 Corrected temperature
 Air 79 Surface 77 Drift
 Trawl or dredge —

F.W. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.29.00	03.45	0		
30.10	02.40	100		
31.15	01.45	200		
32.45	12.00.45	300		
34.00	59.50	400		
35.10	59.00	500		
36.30	58.05	600		
37.50	57.10	700		
39.05	56.10	800		
40.30	55.10	900		
41.50	54.10	1000		
43.15	53.10	1100		
44.50	52.10	1200		
46.15	51.05	1300		
47.45	49.45	1400		
48.00	49.30	1414		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Hanamulu Warehouse, 843°W, 14° $\frac{9}{10}$

OK
J.C.P.
~~3~~

$$\begin{array}{r} 4830 - 257 \\ 1414 \quad \underline{129} \\ \underline{3416} \quad \underline{1310} \\ \underline{\underline{1414}} \quad \underline{\underline{1544}} \end{array}$$

15 - 35

5 - 600

94 - 35

56 - 600